

Title (en)
SIMPLIFIED CHEMICALLY BONDED CERAMIC BIOMATERIAL COMPRISING TWO BINDER SYSTEMS

Title (de)
VEREINFACHTES CHEMISCH GEBUNDENES KERAMISCHES BIOMATERIAL MIT ZWEI BINDESYSTEMEN

Title (fr)
BIOMATÉRIAU CÉRAMIQUE CHIMIQUEMENT LIÉ SIMPLIFIÉ COMPRENANT DEUX SYSTÈMES DE LIANTS

Publication
EP 2485776 A1 20120815 (EN)

Application
EP 09740546 A 20091009

Priority
SE 2009051135 W 20091009

Abstract (en)
[origin: WO2011043707A1] The present invention generally relates to chemically bonded ceramic biomaterials, preferably a dental material or an implant material, comprising two binder systems. The main binder system forms a chemically bonded ceramic upon hydration thereof, and comprises powdered calcium aluminate and, optionally, minor amounts of calcium silicate. The second binder system is a cross-linking organic binder system which provides for initial crosslinking of the freshly mixed paste forming the biomaterial. The biomaterial also comprises inert filler particles. The inventive biomaterial is free from reactive glass and thus provides for a simplified two binder systems biomaterial with a reduced number of required reactive components. The invention relates to a powdered composition for preparing the inventive chemically bonded ceramic biomaterial, and a paste from which the biomaterial is formed, as well as a kit comprising the powdered composition and hydration liquid, as well as methods and use of the biomaterial in dental and implant applications.

IPC 8 full level
A61L 24/00 (2006.01); **A61K 6/06** (2006.01); **A61L 27/10** (2006.01); **A61L 27/44** (2006.01); **C04B 24/04** (2006.01); **C04B 28/00** (2006.01)

CPC (source: EP US)
A61K 6/802 (2020.01 - EP US); **A61K 6/889** (2020.01 - EP US); **A61L 24/0089** (2013.01 - EP US); **A61L 27/10** (2013.01 - EP US); **A61L 27/446** (2013.01 - EP US); **C04B 28/06** (2013.01 - EP US); **C04B 2111/00836** (2013.01 - EP US)

Citation (search report)
See references of WO 2011043707A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011043707 A1 20110414; BR 112012008230 A2 20190730; CN 102753204 A 20121024; EP 2485776 A1 20120815; JP 2013507171 A 20130304; US 2012189987 A1 20120726

DOCDB simple family (application)
SE 2009051135 W 20091009; BR 112012008230 A 20091009; CN 200980161887 A 20091009; EP 09740546 A 20091009; JP 2012533110 A 20091009; US 200913499449 A 20091009